

WHAT IS CLAIMED IS:

1. A wireless communication apparatus
5 comprising:
a multipath detection part which detects a
state of multipath in said wireless communication
apparatus; and
a send part which sends multipath
10 detection information detected by said multipath
detection part to a wireless communication apparatus
at the other end.

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2. A wireless communication apparatus
comprising:
a multipath component canceling signal
20 generation part which generates a signal which
cancels a multipath component in a wireless
communication apparatus at the other end on the
basis of multipath detection information
representing a state of multipath sent from said
25 wireless communication apparatus at the other end;
and
a send part which sends said signal which
cancels said multipath component generated in said
multipath component canceling signal generation part
30 to said wireless communication apparatus at the
other end.

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3. The wireless communication apparatus as
claimed in claim 2, said multipath component

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6. The wireless communication apparatus as
5 claimed in claim 2, wherein said wireless
communication apparatus sends an opposite phase wave
of said signal which cancels said multipath
component at a time position of a multipath having
no interference in order to cancel said signal which
10 cancels said multipath component.

15 7. A wireless communication method
comprising the step of:
a wireless communication apparatus sending
a signal which cancels a multipath component in a
wireless communication apparatus at the other end to
20 said wireless communication apparatus at the other
end with a send signal.

25 8. The wireless communication method as
claimed in claim 7, wherein said signal which
cancels said multipath component is a signal
inverted from an interference wave signal generated
30 from said multipath component in said wireless
communication apparatus at the other end.

35 9. A wireless communication method
comprising the steps of:

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a first wireless communication apparatus
detecting a state of multipath in said first
wireless communication apparatus;

5 said first wireless communication
apparatus sending multipath detection information on
said state to a second wireless communication
apparatus;

10 said second wireless communication
apparatus receiving said multipath detection
information;

15 said second wireless communication
apparatus generating a signal for canceling a
multipath component in said first wireless
communication apparatus on the basis of said
multipath detection information; and

20 said second wireless communication
apparatus sending said signal for canceling said
multipath component to said first wireless
communication apparatus.

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